

5000
Sortal Number: 09/868,547

Errors Corrocted by the STIC Systems Branch

CRF Processing Ratio:

Edited by:

Verifed by:

Putlog

#5

ENTERED

Changed a file from non-ASCII to ASCII

Changed the margins in cases where the sequence text was 'wrapped' down to the next line.

Edited a formal error in the Current Application Data section, specifically:

Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other _____

Added the mandatory heading and subheadings for 'Current Application Data'.

Edited the 'Number of Sequences' field. The applicant spelled out a number instead of using an integer.

Changed the spelling of a mandatory field (the headings or subheadings), specifically:

Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

Inserted colons after headings/subheadings. Headings edited included: _____

Deleted extra, invalid, headings used by an applicant, specifically:

Deleted: non-ASCII 'garbage' at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as _____

Inserted mandatory headings, specifically: _____

Corrected an obvious error in the response, specifically:

Edited identifiers where upper case is used but lower case is required, or vice versa.

Corrected an error in the Number of Sequences field, specifically:

A 'Hard Page Break' code was inserted by the applicant. All occurrences had to be deleted.

Deleted ending stop codon in amino acid sequences and adjusted the '(A)Length:' field accordingly (error due to a PatentIn bug). Sequences corrected: _____

Other:

Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/868,547

DATE: 11/06/2001
TIME: 07:56:55

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\11062001\I868547.raw

3 <110> APPLICANT: E. I. du Pont de Nemours and Company
5 <120> TITLE OF INVENTION: Flavonoid Biosynthetic Enzymes
7 <130> FILE REFERENCE: BB1324 1
C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/868,547
C--> 10 <141> CURRENT FILING DATE: 2001-09-20
12 <150> PRIOR APPLICATION NUMBER: 60/113,190
13 <151> PRIOR FILING DATE: 1998-12-21
15 <160> NUMBER OF SEQ ID NOS: 10
17 <170> SOFTWARE: Microsoft Office 97
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 1053
21 <212> TYPE: DNA
22 <213> ORGANISM: Glycine max
24 <400> SEQUENCE: 1
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26 gggcacctaa gacctatgtg tcttaagtgg gctgttcaac taggtattcc agacataata 120
27 cagaaccatg ccaaaccat tacagttct gacttgggtt ctactcttca aatttcacca 180
28 tctaaggctg gtttgtgca gcagttcatg cgcttttgg cacacgatgg aatctttgat 240
29 atccgtgaga gccaagatga tcatgaatta gcataatgctc taacccctgc atcaaagctt 300
30 ctagtttagt gcagtgacca ctgtttatct ccaatggttc ggatgaatac tgatccactt 360
31 ctgatgacta cataccatca ctgggggaa tggattcgtg gggaaagaccc cacagtagat 420
32 gagacagcct tcggaacaag ctgggggaa cttcttgaga aaaaccctac acaaatgagt 480
33 ctcttcaatg aggctatggc aagtgattcc cgaatggtag acttggcaact caaaaattgc 540
34 acttcagttt ttgaaggcgt agattccatg gtggatgtt gtgggtggaaac ttggaccaca 600
35 gccaaaattt tctgtgaggc atttccgaag ttgaaatgtt ttgtgcttga ctttcctcat 660
36 gttgtagaaa acttgacagg aaccaataat ttgagtttt tcgggtgttga tatgttcaac 720
37 tcttccttc aaactgatgc agttctacta aagtgggtt tacataattt gaatgacgaa 780
38 aattgcataa agatcctgaa aaagtgtaaa gattctattt caagcaaagg caacaaagga 840
39 aaagtgatta tcatalogat aataataat gagaagctg atgatccgga tatgactcga 900
40 acaaagctt gtttgatagttatgtcg actatgaatg gaagagagcg aagtgaaaaa 960
41 gaatggaaac aaatgttcat tgaagcggga ttcaaacact gcaaaatatt tcccatctt 1020
42 ggtttcagat ctctaattga gctctatct tag 1053
44 <210> SEQ ID NO: 2
45 <211> LENGTH: 350
46 <212> TYPE: PRT
47 <213> ORGANISM: Glycine max
49 <400> SEQUENCE: 2
50 Asp Asn Gln Lys Ala Met Glu Leu Phe Glu Gly Gln Ser Leu Leu Tyr
51 1 5 10 15
53 Met Gln Leu Tyr Gly His Leu Arg Pro Met Cys Leu Lys Trp Ala Val
54 20 25 30
56 Gln Leu Gly Ile Pro Asp Ile Ile Gln Asn His Ala Lys Pro Ile Thr
57 35 40 45
59 Val Ser Asp Leu Val Ser Thr Leu Gln Ile Ser Pro Ser Lys Ala Gly
60 50 55 60
62 Phe Val Gln Gln Phe Met Arg Phe Leu Ala His Asp Gly Ile Phe Asp
63 65 70 75 80

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/868,547

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TIME: 07:56:55

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\11062001\I868547.raw

65 Ile Arg Glu Ser Gln Asp Asp His Glu Leu Ala Tyr Ala Leu Thr Pro
 66 85 90 95
 68 Ala Ser Lys Leu Leu Val Ser Cys Ser Asp His Cys Leu Ser Pro Met
 69 100 105 110
 71 Val Arg Met Asn Thr Asp Pro Leu Leu Met Thr Thr Tyr His His Phe
 72 115 120 125
 74 Gly Glu Trp Ile Arg Gly Glu Asp Pro Thr Val His Glu Thr Ala Phe
 75 130 135 140
 77 Gly Thr Ser Phe Trp Gly Leu Leu Glu Lys Asn Pro Thr Gln Met Ser
 78 145 150 155 160
 80 Leu Phe Asn Glu Ala Met Ala Ser Asp Ser Arg Met Val Asp Leu Ala
 81 165 170 175
 83 Leu Lys Asn Cys Thr Ser Val Phe Glu Gly Leu Asp Ser Met Val Asp
 84 180 185 190
 86 Val Gly Gly Thr Gly Thr Ala Lys Ile Ile Cys Glu Ala Phe
 87 195 200 205
 89 Pro Lys Leu Lys Cys Val Val Leu Asp Leu Pro His Val Val Glu Asn
 90 210 215 220
 92 Leu Thr Gly Thr Asn Asn Leu Ser Phe Val Gly Gly Asp Met Phe Asn
 93 225 230 235 240
 95 Ser Phe Pro Gln Thr Asp Ala Val Leu Leu Lys Trp Val Leu His Asn
 96 245 250 255
 98 Trp Asn Asp Glu Asn Cys Ile Lys Ile Leu Lys Lys Cys Lys Asp Ser
 99 260 265 270
 101 Ile Ser Ser Lys Gly Asn Lys Gly Lys Val Ile Ile Asp Ile Ile
 102 275 280 285
 104 Ile Asn Glu Lys Leu Asp Asp Pro Asp Met Thr Arg Thr Lys Leu Ser
 105 290 295 300
 107 Leu Asp Ile Val Met Ser Thr Met Asn Gly Arg Glu Arg Ser Glu Lys
 108 305 310 315 320
 110 Glu Trp Lys Gln Met Phe Ile Glu Ala Gly Phe Lys His Cys Lys Ile
 111 325 330 335
 113 Phe Pro Ile Phe Gly Phe Arg Ser Leu Ile Glu Leu Tyr Pro
 114 340 345 350
 116 <210> SEQ ID NO: 3
 117 <211> LENGTH: 1160
 118 <212> TYPE: DNA
 119 <213> ORGANISM: Glycine max
 121 <400> SEQUENCE: 3
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 123 tcaagcttc ttgtacaaac atttgctgg cttcatagat tctaagtgtc taaaatggat 120
 124 ggttggctt gacatacccg acataatcca cagccatagc catggccac ccattacttt 180
 125 ttcagagttt gtgtcaattc tacaagtccc accaactaaa actcgtcagg tgcagagcct 240
 126 catgcgttat ctagcacaca atggattctt tgagatagta agaatccatg acaacataga 300
 127 agcatatgtc ctcactgctg cttcagagtt acttgtcaaa agcagtgagc ttatgttttagc 360
 128 tccaatgtt gagtatttc ttgaacccaa ttgtcaaggt gcatggacc agttgaagag 420
 129 gtgggttcat gaggaaagatc tcacagtatt tgaggtctcc ttaggaacac ctttctggga 480
 130 ctttatcaat aaagaccctg catataacaa gtcattcaat gaggcaatgg cttgtgattc 540
 131 tcagatgtt aacttggcgt ttagagattt caattggcgt tttgaggac tggaatccat 600

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PATENT APPLICATION: US/09/868,547

DATE: 11/06/2001
TIME: 07:56:55

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\11062001\I868547.raw

132 tgtggatgtt ggtggggaa ctggaatcac agcaaagatt atctgtgagg ctttcctaa 660
 133 gctgaaatgc atgggttgg aacgtccaaa tggatgtggaa aatttgcatacataa 720
 134 tttgacattt gttgggggg acatgtttaa atgcataccc aaggctgatc cagttctgct 780
 135 taagttgggtt ttacataatt ggaatgacaa cgattgcatacataa 840
 136 agaagctatt tcaggtgaaa gcaaaaacagg aaaagtagtt gtcatacatgata 900
 137 cggaaaacaaa gatgagcgcc aagttactga actaaagctc cttatggatc tacacatggc 960
 138 atgtatttattt aatggaaaag agagaaaaga agaagattgg aagaaaactct tcatggaa 1020
 139 agggttccaa agtcacaaaa tatctccctt cacaggatatttgcatacatgata 1080
 140 tccttgaata ctgacgctgc aatattccat ttagtagtta atttgcatacatgata 1140
 141 ataaaaagtta tctttgtt 1160
 143 <210> SEQ ID NO: 4
 144 <211> LENGTH: 358
 145 <212> TYPE: PRT
 146 <213> ORGANISM: Glycine max
 148 <400> SEQUENCE: 4
 149 Met Ala Ser Ser Leu Asn Asn Gly Arg Lys Ala Ser Glu Ile Phe Gln
 150 1 5 10 15
 152 Gly Gln Ala Leu Leu Tyr Lys His Leu Leu Gly Phe Ile Asp Ser Lys
 153 20 25 30
 155 Cys Leu Lys Trp Met Val Glu Leu Asp Ile Pro Asp Ile Ile His Ser
 156 35 40 45
 158 His Ser His Gly Gln Pro Ile Thr Phe Ser Glu Leu Val Ser Ile Leu
 159 50 55 60
 161 Gln Val Pro Pro Thr Lys Thr Arg Gln Val Gln Ser Leu Met Arg Tyr
 162 65 70 75 80
 164 Leu Ala His Asn Gly Phe Phe Glu Ile Val Arg Ile His Asp Asn Ile
 165 85 90 95
 167 Glu Ala Tyr Ala Leu Thr Ala Ala Ser Glu Leu Leu Val Lys Ser Ser
 168 100 105 110
 170 Glu Leu Ser Leu Ala Pro Met Val Glu Tyr Phe Leu Glu Pro Asn Cys
 171 115 120 125
 173 Gln Gly Ala Trp Asn Gln Leu Lys Arg Trp Val His Glu Glu Asp Leu
 174 130 135 140
 176 Thr Val Phe Glu Val Ser Leu Gly Thr Pro Phe Trp Asp Phe Ile Asn
 177 145 150 155 160
 179 Lys Asp Pro Ala Tyr Asn Lys Ser Phe Asn Glu Ala Met Ala Cys Asp
 180 165 170 175
 182 Ser Gln Met Leu Asn Leu Ala Phe Arg Asp Cys Asn Trp Val Phe Glu
 183 180 185 190
 185 Gly Leu Glu Ser Ile Val Asp Val Gly Gly Gly Thr Gly Ile Thr Ala
 186 195 200 205
 188 Lys Ile Ile Cys Glu Ala Phe Pro Lys Leu Lys Cys Met Val Leu Glu
 189 210 215 220
 191 Arg Pro Asn Val Val Glu Asn Leu Ser Gly Ser Asn Asn Leu Thr Phe
 192 225 230 235 240
 194 Val Gly Gly Asp Met Phe Lys Cys Ile Pro Lys Ala Asp Ala Val Leu
 195 245 250 255
 197 Leu Lys Leu Val Leu His Asn Trp Asn Asp Asn Asp Cys Met Lys Ile
 198 260 265 270

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/868,547

DATE: 11/06/2001
TIME: 07:56:55

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\11062001\I868547.raw

200 Leu Glu Asn Cys Lys Glu Ala Ile Ser Gly Glu Ser Lys Thr Gly Lys
201 275 280 285
203 Val Val Val Ile Asp Thr Val Ile Asn Glu Asn Lys Asp Glu Arg Gln
204 290 295 300
206 Val Thr Glu Leu Lys Leu Leu Met Asp Val His Met Ala Cys Ile Ile
207 305 310 315 320
209 Asn Gly Lys Glu Arg Lys Glu Glu Asp Trp Lys Lys Leu Phe Met Glu
210 325 330 335
212 Ala Gly Phe Gln Ser Tyr Lys Ile Ser Pro Phe Thr Gly Tyr Leu Ser
213 340 345 350
215 Leu Ile Glu Ile Tyr Pro
216 355
218 <210> SEQ ID NO: 5
219 <211> LENGTH: 1065
220 <212> TYPE: DNA
221 <213> ORGANISM: Glycine max
223 <400> SEQUENCE: 5
224 atggcttcaa tgaataacca aaaagaaatt gagcttttgc agggccaatc tcttctgtac 60
225 atgcagctat atgggcacct aagacctatgt tgccttaagt gggctgttca actaggttatt 120
226 ccagacataa tacagaacca tgcacaaaccc atttctctt ctgacttggt ctctactctt 180
227 caaaattccac cagctaacgc tgcctttgtc cagcggttca tgcgcttctt ggcacacaaat 240
228 ggaatcttg agatccatga gagccaagaa gatcatgaac taacatatgc tctaaccctt 300
229 gcatcaaagc ttcttgcata tagtagtgat cattgtctat ctccaaatggt tctagcggtt 360
230 accgatccac ttccggAACgt taaataccat cacttggggg aatggattcg tggggaggac 420
231 ccctcagttat ttgagacagc ccacggaaaca agcgcttggg gacttcttga gaaaaatcct 480
232 gaatattttt gtctttcaa tgaggctatg gcaagtgtt cccgaatagt agacttggca 540
233 ctcaaaaattt gcaacttcagt ttttgaggggg ctagattcca tggtgatgt tgggtgttga 600
234 acttggaaacca cggccagaat tatctgtgac gcatttccta agttgaaatg tgggtgtt 660
235 gacccttcctc atgttgttga gaaacttgaca gggaccaata atttgaggtt tgggtgtt 720
236 gacatgttca actctatccc tcaagctgtat gcagtgtac taaagtgggt ttacataat 780
237 tggaccgacg aaaatttgcataa agatccctg caaaagtgtt gagattctat ttcaagcaaa 840
238 ggcacacgtt gaaaaatgtat tatcatagat gccgtataaa atgagaagct agatgacccg 900
239 gatatgacac aaacaaagct tagttggac attattatgt tgacgtatggaa tggaaagagag 960
240 agaacggaaa aagaatggaa acaactttc atcgaaggcag gattcaaaaca ctacaaaata 1020
241 tttcccatct ttggtttttag atctctgtt gaggcttatac cttgtt 1065
243 <210> SEQ ID NO: 6
244 <211> LENGTH: 351
245 <212> TYPE: PRT
246 <213> ORGANISM: Glycine max
248 <400> SEQUENCE: 6
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250 1 5 10 15
252 Ser Leu Leu Tyr Met Gln Leu Tyr Gly His Leu Arg Pro Met Cys Leu
253 20 25 30
255 Lys Trp Ala Val Gln Leu Gly Ile Pro Asp Ile Ile Gln Asn His Ala
256 35 40 45
258 Lys Pro Ile Ser Leu Ser Asp Leu Val Ser Thr Leu Gln Ile Pro Pro
259 50 55 60
261 Ala Asn Ala Ala Phe Val Gln Arg Phe Met Arg Phe Leu Ala His Asn

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/868,547

DATE: 11/06/2001
TIME: 07:56:55

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\11062001\I868547.raw

262	65	70	75	80												
264	Gly	Ile	Phe	Glu	Ile	His	Glu	Ser	Gln	Glu	Leu	Thr	Tyr	Ala	Leu	Thr
265											85					95
267	Pro	Ala	Ser	Lys	Leu	Leu	Val	Asn	Ser	Ser	Asp	His	Cys	Leu	Ser	Pro
268											100					110
270	Met	Val	Leu	Ala	Phe	Thr	Asp	Pro	Leu	Arg	Asn	Val	Lys	Tyr	His	His
271											115					125
273	Leu	Gly	Glu	Trp	Ile	Arg	Gly	Glu	Asp	Pro	Ser	Val	Phe	Glu	Thr	Ala
274											130					140
276	His	Gly	Thr	Ser	Ala	Trp	Gly	Leu	Leu	Glu	Lys	Asn	Pro	Glu	Tyr	Phe
277											145					160
279	Ser	Leu	Phe	Asn	Glu	Ala	Met	Ala	Ser	Asp	Ser	Arg	Ile	Val	Asp	Leu
280											165					175
282	Ala	Leu	Lys	Asn	Cys	Thr	Ser	Val	Phe	Glu	Gly	Leu	Asp	Ser	Met	Val
283											180					190
285	Asp	Val	Gly	Gly	Gly	Thr	Gly	Thr	Thr	Ala	Arg	Ile	Ile	Cys	Asp	Ala
286											195					205
288	Phe	Pro	Lys	Leu	Lys	Cys	Val	Val	Leu	Asp	Leu	Pro	His	Val	Val	Glu
289											210					220
291	Asn	Leu	Thr	Gly	Thr	Asn	Asn	Leu	Ser	Phe	Val	Gly	Gly	Asp	Met	Phe
292											225					240
294	Asn	Ser	Ile	Pro	Gln	Ala	Asp	Ala	Val	Leu	Leu	Lys	Trp	Val	Leu	His
295											245					255
297	Asn	Trp	Thr	Asp	Glu	Asn	Cys	Ile	Lys	Ile	Leu	Gln	Lys	Cys	Arg	Asp
298											260					270
300	Ser	Ile	Ser	Ser	Lys	Gly	Asn	Ser	Gly	Lys	Val	Ile	Ile	Ile	Asp	Ala
301											275					285
303	Val	Ile	Asn	Glu	Lys	Leu	Asp	Asp	Pro	Asp	Met	Thr	Gln	Thr	Lys	Leu
304											290					300
306	Ser	Leu	Asp	Ile	Ile	Met	Leu	Thr	Met	Asn	Gly	Arg	Glu	Arg	Thr	Glu
307											305					320
309	Lys	Glu	Trp	Lys	Gln	Leu	Phe	Ile	Glu	Ala	Gly	Phe	Lys	His	Tyr	Lys
310											325					335
312	Ile	Phe	Pro	Ile	Phe	Gly	Phe	Arg	Ser	Leu	Ile	Glu	Val	Tyr	Pro	
313											340					350
315	<210> SEQ ID NO: 7															
316	<211> LENGTH: 1253															
317	<212> TYPE: DNA															
318	<213> ORGANISM: Glycine max															
320	<400> SEQUENCE: 7															
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322	cctaagac	ct	atgtgtctta	agtgggtgt	tcaactaggt	attccagaca	taatacagaa									120
323	ccatgccccaa	cccattactc	tttctgattt	ggtctctact	cttcaaattc	caccatctaa										180
324	ggctgggttt	gtgcagcagt	tcatgcgc	tttggcacac	gatggaatct	ttgatatccg										240
325	tgagagccaa	gatgatcatg	aattagcata	tgctctaacc	cctgcttcaa	agcttcttagt										300
326	tagttgcagt	gaccactgtt	tatctccaat	ggttcggat	aatactgatc	cacttctgat										360
327	gactacatac	catca	tttgggacttct	tgagaaaaac	cctacacaaa	tgagtctt										420
328	agccttcgga	acaagcttt	ggggacttct	tgagaaaaac	cctacacaaa	tgagtctt										480
329	caatgagc	atggcaagtg	attcccgaat	ggttagactt	gcactcaaaa	attgcacttc										540

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/868,547

DATE: 11/06/2001

TIME: 07:56:56

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\11062001\I868547.raw

L:9 M:270 C: Current Application Number differs, Replaced Application Number

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

PCT09

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/868,547

DATE: 10/30/2001

TIME: 14:05:44

Input Set : A:\BB1324 PCT 01 Seq List.txt
 Output Set: N:\CRF3\10302001\I868547.raw

3 <110> APPLICANT: E. I. du Pont de Nemours and Company
 5 <120> TITLE OF INVENTION: Flavonoid Biosynthetic Enzymes
 7 <130> FILE REFERENCE: BB1324 1
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/868,547
 C--> 10 <141> CURRENT FILING DATE: 2001-09-20
 12 <150> PRIOR APPLICATION NUMBER: 60/113,190
 13 <151> PRIOR FILING DATE: 1998-12-21
 15 <160> NUMBER OF SEQ ID NOS: 10
 17 <170> SOFTWARE: Microsoft Office 97

Does Not Comply
 Corrected Diskette Needed

ERRORED SEQUENCES

440 <210> SEQ ID NO: 10
 441 <211> LENGTH: 350
 442 <212> TYPE: PRT
 443 <213> ORGANISM: Glycine max
 445 <400> SEQUENCE: 10
 446 Ala Ser Met Asn Asn Gln Lys Glu Ile Glu Leu Phe Glu Gly Gln Ser
 447 1 5 10 15
 449 Leu Leu Tyr Met Gln Leu Tyr Gly His Leu Arg Pro Met Cys Leu Lys
 450 20 25 30
 452 Trp Ala Val Gln Leu Gly Ile Pro Asp Ile Ile Gln Asn His Ala Lys
 453 35 40 45
 455 Pro Ile Ser Leu Ser Asp Leu Val Ser Thr Leu Gln Ile Pro Pro Ala
 456 50 55 60
 458 Asn Ala Ala Phe Val Gln Arg Phe Met Arg Phe Leu Ala His Asn Gly
 459 65 70 75 80
 461 Ile Phe Glu Ile His Glu Ser Gln Glu Leu Thr Tyr Ala Leu Thr Pro
 462 85 90 95
 464 Ala Ser Lys Leu Leu Val Asn Ser Ser Asp His Cys Leu Ser Pro Met
 465 100 105 110
 467 Val Leu Ala Phe Thr Asp Pro Leu Arg Asn Val Lys Tyr His His Leu
 468 115 120 125
 470 Gly Glu Trp Ile Arg Gly Glu Asp Pro Ser Val Phe Glu Thr Ala His
 471 130 135 140
 473 Gly Thr Ser Ala Trp Gly Leu Leu Glu Lys Asn Pro Glu Tyr Phe Ser
 474 145 150 155 160
 476 Leu Phe Asn Glu Ala Met Ala Ser Asp Ser Arg Ile Val Asp Leu Ala
 477 165 170 175
 480 Leu Lys Asn Cys Thr Ser Val Phe Glu Gly Leu Asp Ser Met Val Asp
 481 180 185 190
 483 Val Gly Gly Gly Thr Gly Thr Ala Arg Ile Ile Cys Asp Ala Phe
 484 195 200 205
 486 Pro Lys Leu Lys Cys Val Val Leu Asp Leu Pro His Val Val Glu Asn
 487 210 215 220
 489 Leu Thr Gly Thr Asn Asn Leu Ser Phe Val Gly Asp Met Phe Asn

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/868,547

DATE: 10/30/2001

TIME: 14:05:44

Input Set : A:\BB1324 PCT 01 Seq List.txt
Output Set: N:\CRF3\10302001\I868547.raw

490	225	230	235	240
492	Ser Ile Pro Gln Ala Asp Ala Val Leu Leu Lys Trp Val Leu His Asn			
493	245	250	255	
495	Trp Thr Asp Glu Asn Cys Ile Lys Ile Leu Gln Lys Cys Arg Asp Ser			
496	260	265	270	
498	Ile Ser Ser Lys Gly Asn Ser Gly Lys Val Ile Ile Asp Ala Val			
499	275	280	285	
501	Ile Asn Glu Lys Leu Asp Asp Pro Asp Met Thr Gln Thr Lys Leu Ser			
502	290	295	300	
504	Leu Asp Ile Ile Met Leu Thr Met Asn Gly Arg Glu Arg Thr Glu Lys			
505	305	310	315	320
507	Glu Trp Lys Gln Leu Phe Ile Glu Ala Gly Phe Lys His Tyr Lys Ile			
508	325	330	335	
510	Phe Pro Ile Phe Gly Phe Arg Ser Leu Ile Glu Val Tyr Pro			
511	340	345	350	
E-->	513 (9)			

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/868,547

DATE: 10/30/2001

TIME: 14:05:45

Input Set : A:\BB1324 PCT 01 Seq List.txt

Output Set: N:\CRF3\10302001\I868547.raw

L:9 M:270 C: Current Application Number differs, Replaced Application Number

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:513 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:10